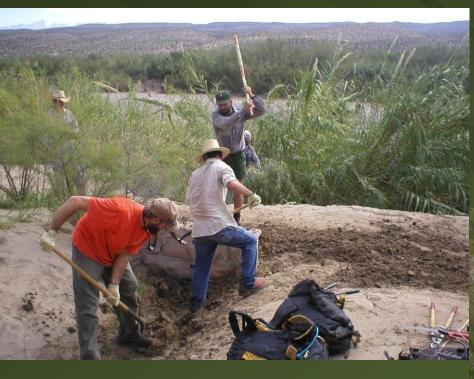




Understand Basic Work Crew Organization

- All Trail Crews and Trail Projects will Break into Operational Roles
 - They can Develop on their Own or You can
 Pre-Identify them for Easier Project Management
- Crew Management Has the Following Identified Roles:
 - Project Manager
 - Technical Supervisor
 - Crew Leader
 - Crew Members

Management and Mutiny





Technical Supervisor:



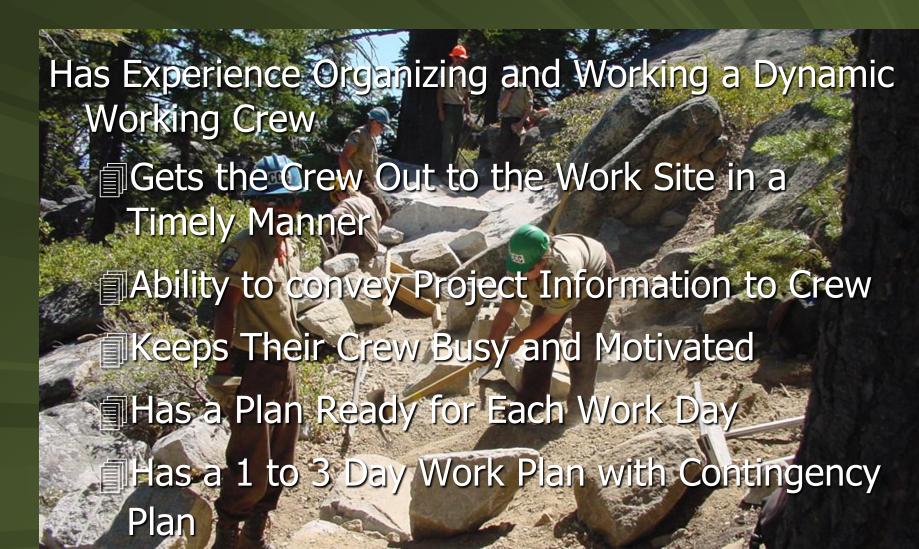
Technical Supervisor:

Has Complete Working Knowledge of Project: Identifies and/or Obtains Specialized Tools and Equipment Needs / works with Leader Provides or Identifies Needed Skills and Training Required for Project Completion Identifies Logistical Needs Develops Project Implementation Components/Construction Time Line

Crew Leader:

Knows the Logical Stages of the Project Completion Identifies what Tools, Equipment and Materials are Needed to Continue Working Develops a Team with the Technical Supervisor Identifies Crew Needed Training and Technical Needs for Project Components

Crew Leader:



Crew Leader:

Develops a Team with the Technical Supervisor

Communicates Regularly With Technical Supervisor Keeps Project Focused and to Identified Scope Identifies and Rejects Poor Workmanship If there is Poor Workmanship, it is the Responsibility of the Crew Leader, Not the Crew Coordinates Work Crew Educational and Developmental Needs to Technical Supervisor

Crew Communication Roles

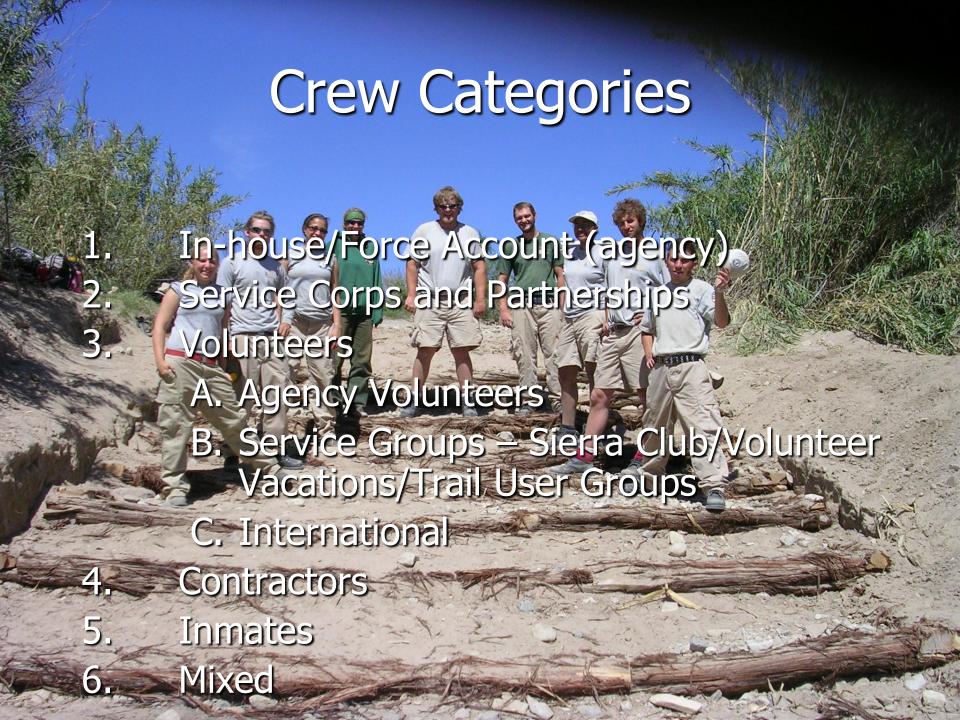
- All Decisions Concerning Project Design, Materials and Quality Control is the Responsibility of the Technical Supervisor
- All Decisions Concerning the Employee Safety, Task Assignment and Supervision of the Work Crew is the Crew Leader
- © Communication to the Crew Members Normally Goes through the Crew Leader
 - If you Directly Communicate Project Inconsistency to the Crew Members it Undermines the Authority of the Crew Leader

Exercise

What Types of Crews Do You Use for Trail Work?

Brainstorm types of crews

Record Types on Flip Chart



Crew Personnel Management

- Safety
- Recruitment
- Training
- Retention

Safety



	Task Hazard Analysis							
Task or Project:	Work Force:	Prepared By:						
		Date:						
	5	Technical Supervisor Review:						
Major Steps to Accomplish	Potential Sources of Accident After each step, note hazards of arrangement as	Preventive Measures						
List steps in the order they normally occur	well as techniques and habits of people that may produce accident	Note precautions or procedures to be followed eliminate the potential source of accident						
•Mobilize	Crushing Injuries	·inspect cable,						
Daaine Dinaine	Slip, Trip and Fall	chain or wire rope						
Design Rigging	Matarial III alam	•						
System	Material Under	for wear and						
Oyotem	Stress	replace						
 Select Equipment 	Equipment	.l/n avy vata d						
	<u> </u>	 Know rated 						
Set Rigging	Limitations	capacity of cable,						
Moveled	Pinch Points	chain or wire rope						
•Move Load	Overhead Loads	being used						
•Remove Rigging	Lifting							
Treiliove Irigging	Lifting	•Avoid						
•Demobilize	Cuts and Abrasion	overloading and						
		shock loading						
		chook loading						

Creates Better Efficiencies



Increases Skill Levels





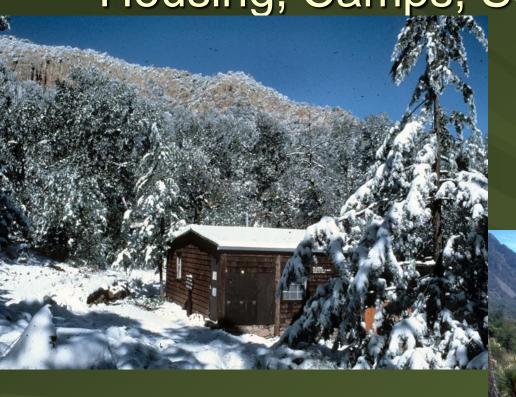
Decreases Costs



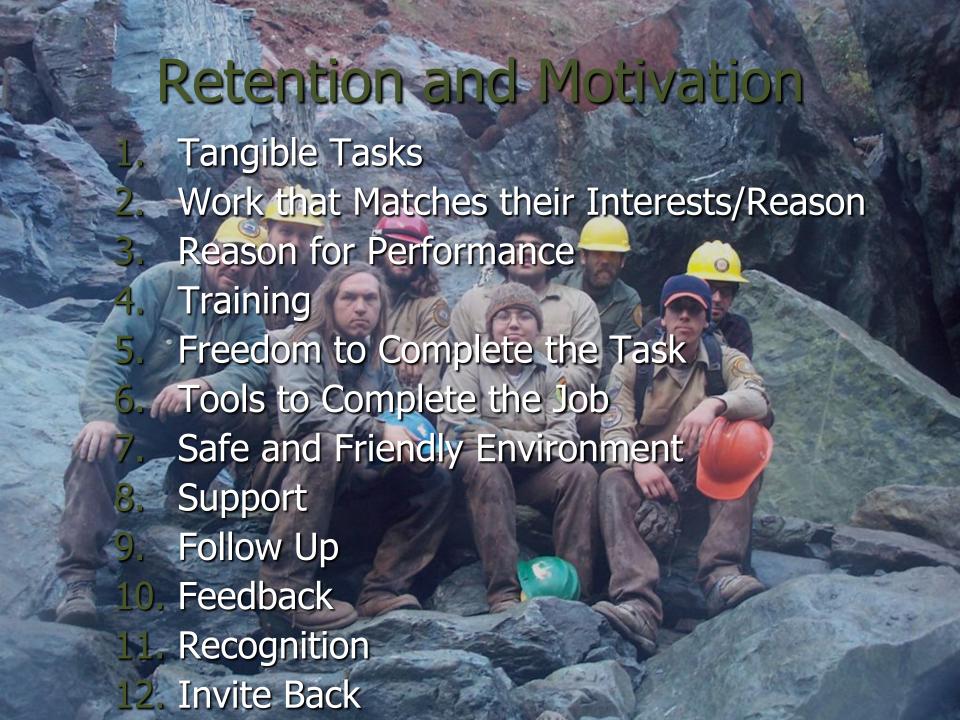
♥ Motivates



Retention and Motivation Housing, Camps, Support, Awards...







Types of Crews and Trail Project Management

- Who Does What
- Select the Proper Crew Type for the Job Proposed

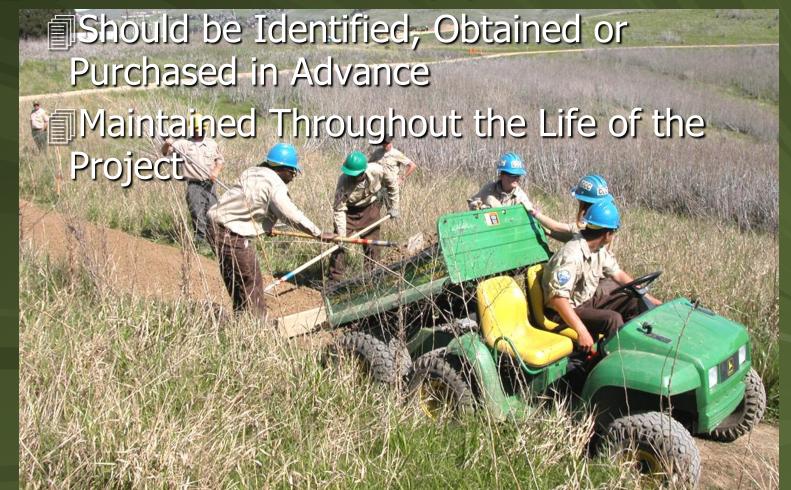


Project Agreements

- 1. What Will the Agency Do and/or Provide
- 2. What Will the Crew Do and/or Provide
- 3. Commitment Expectation by Agency or Crew

Typical Agency Supplied Items

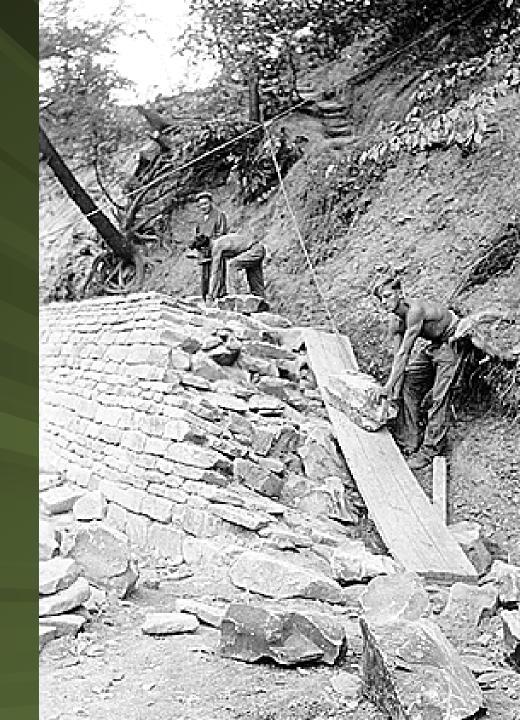
Specialized Tools and Equipment



Typical Agency Supplied Items

Materials

- On-site NativeMaterials are Located and Approved
- Proper Harvesting Techniques Trained
- Purchased Materials
- Obtained Prior to Project Start



Criteria Needed For Project Starting

- All Trail Projects Should Have Permits and Environmental Clearances On-Site
- Limit Technical Supervisor to One Individual if Operationally Possible
- Perform a Pre-Start Meeting Involving the Crew Supervisor and the Technical Supervisor
- Solicit Input from the Crew and Supervisor

Criteria For Efficient Project Management

Keep the Work Crew on the Assigned Project

This Eliminates Confusion and Morale Issues

The Work Crew is not a Catch all Work Force to be Shifted for Daily Priority Changes

How do We Pick the Right Crew for the Right Trail Project?

Factors to Consider



Complexity of Project



Logistics and Location



Time Lines and Budget -environment/season -available funding

																	1
1	Sierra District Crew Schedule - 2003																
2	Inhouse Work Crews	April 18					May				June				Ju	ıly	
3	Crew	نٌ ڋ	11	18	25	2	9	16	23	30	6	13	20	27	4	11	18
	Brian Woodson Trail Crew Rubicon Squad -		for Nev	raining v Crew bers	Em Mine/ Yuba/N Road a	South Ialakoff		ector/Gro Road a		:		ss Prep/l Stand Ma		- 11		st Lake T	
7	Laborer and Crew		11	ng Crew Sierra	Loggir and C	ig Out	:	Out and g CAT I	: 1	Reliab	Aspen	Funded	nayemen	i wico	Man	agement Funded	EIP
8			G	φld	Clea	ning											
9	Project Cost	\$3,300			\$3,300	\$6,600	\$3,300	\$6,600	\$9,900	\$3,300	\$6,600	\$9,900	\$13,200	\$16,500	\$3,300	\$6,600	\$9,900
10	Trail Crew Sugar Pine Squad -		for Nev Mem Returnii R&T	raining v Crew bers ng Crew Sierra	Sugar				Trail Pha ilding / H					ssable	Blis	s Campç	round f
12	Project Cost	\$3,300			\$3,300	\$6,600	\$9,900	\$13,200	\$16,500	\$19,800	\$23,100	\$26,400	\$29,700	\$33,000	\$3,300	\$6,600	\$9,900
	Forestry Management Crew Red Squad Brian Robertson Brian Robertson		for New Mem	raining v Crew bers ng Crew	er Campground Opening	Eur Camp	mas eka ground ning	Don Mem Campo Ope	orial	Pluma and Ro	ner Mem as Eurek ad Loggi ulvert Cle	a Trail ng Out	Vikingsholm Veg Management	Hydrology	D.L.	Bliss Thi Stack	n and
14				Gold	Grow								Vikin Mana				
15	Project Cost	\$4,330			\$4,330	\$4,330	\$8,661	\$4,330	\$8,661	\$4,330	\$8,661	\$12,991	\$4,330	\$4,330	\$4,330	\$8,661	\$12,991

Safety!



Final Thoughts of Crew Management

- 1. Determine Which Category of Crew to Use For Your Project and Why?
- 2. What Specialized Tools and Materials the Agency Needs to Provide?
- 3. What Does the Crew Need to Bring?
- 4. What Level of Support and Supervision by Technical Supervisor is Needed?
- 5. How Would You Recruit Your Selected Crew?
- 6. What Special Logistics are Needed?
- 7. What Training is Needed for Your Crew?

Summary

- Crew Management is a Process
- Recognize Roles on Work Crews
- Crews Require Planning and Time Commitment
- We Can Maximize Trail Work Needed with Utilizing Multiple Crew Types
- Invest in Trail Crews for Positive Returns
- Treat Trail Crew Labor as a Valued Commodity